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ADVANCE REPORT ON THE FISHERIES OF THE UNITED STATES

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By E. A. POWER

FISHERY LEAFLET 532

United States
Department of the Interior
Fish and Wildlife Service
Bureau of Commercial Fisheries

Washington 25, D. C.

January 31, 1962

United States Department of the Interior, Stewart L. Udall, Secretary
Fish and Wildlife Service, Clarence F. Pautzke, Commissioner
Bureau of Commercial Fisheries, Donald L. McKernan, Director

ADVANCE REPORT ON THE FISHERIES OF THE UNITED STATES, 1961

By E. A. POWER
Chief, Branch of Statistics

This is a report issued in advance of
Fisheries of the United States, 1961 -
A Preliminary Review.

United States Fish and Wildlife Service
Fishery Leaflet 532

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UNITED STATES FISHERIES - 1961

Review

United States fishermen took 5.1 billion pounds of fish, shellfish, and other aquatic products in 1961--about 200 million pounds more than in 1960. The landings had an ex-vessel value to the fishermen of about $364 million--$10 million more than in the previous year. The catch was the nation's second largest, totaling only 4 percent under the record 5.3 billion pounds taken in 1956.

The gains were caused principally by increased landings of menhaden, tuna, jack mackerel, and salmon. Other items taken in considerably greater volume were king crabs, cod, haddock, anchovies, and Pacific mackerel. Large declines occurred in catches of herring in both Maine and Alaska, sardines, shrimp, and whiting.

Prices for most items advanced during 1961, and according to the "Wholesale Prices and Indexes for Edible Fishery Products," in December 1961, prices were 7.8 percent higher than in the same month of 1960. The greatest increases in wholesale prices were for canned Maine sardines, up 44.8 percent; and 26-30 count brown shrimp in 5-pound packages in Chicago, which were up 32.6 percent. Late in the year, substantial increases occurred in the price of fish meal and in the ex-vessel price of tuna.

Despite a moderate increase in catch during the past decade, the United States has failed to hold its relative position as a fishing nation. China (Mainland), the U. S. S. R., and Peru have moved ahead of the United States in volume of fish and shellfish taken. While the United States catch (including shell weight of mollusks) in 1961 was 9 percent more than in 1950, the combined catch of other nations was up over 100 percent.

In 1961, the most productive stretch of water fished by United States fishermen was between Pascagoula, Mississippi, and Port Arthur, Texas. From the coastal waters between these cities, which are only 300 miles apart as the crow flies, over 1.1 billion pounds of fish and shellfish were taken--21 percent of the total United States catch. Nearly all of the catch was taken in sheltered coastal waters or within a few miles of the coastline. Menhaden, unclassified fish for animal food, crabs, oysters, and shrimp were the principal items. Quantities of anchovies, star butterfish (harvestfish), blackfin tuna, little tuna, mullet, scup, Spanish mackerel, and bluefish also occur in the area but are not fished.

For the fishing industry, 1961, was a year of marked contrasts.

In the spring, great concern was expressed over the decline in the price of fish meal and an international meeting was held in Rome to assess the world demand for fish meal and to explore possibilities of insuring stable conditions in the international market for this product. By the end of the year, although the United States production of meal was at a near record and imports were the largest in history; meal was in short supply, prices had shown a marked recovery, and dealers were actively seeking new sources of supply.

The year opened with stocks of frozen shrimp (54.4 million pounds) at a record high and the market weak. For a number of months stocks remained well above those for the same date the previous year. In the late spring and during the summer, it became apparent that shrimp production in the South Atlantic and Gulf was far below normal, catches dropped, and a tight market developed. At the end of the year, stocks of frozen shrimp totaled only 20 million pounds--63 percent less than a year earlier--and prices were up sharply.

Packers of canned tuna put up the largest pack in history, and the packs of canned salmon and jack mackerel were the best in a number of years. However, due to shortages of sea herring, sardines, and shrimp, packs of these items were far below normal.

Despite a rapidly growing population, with increased demand for fishery products due to population growth, the United States catch of fish for human food continued at about the same level. In 1961, the domestic catch for human food was 18 percent below the 1948-1953 average. During the same period, imports of edible products increased over 95 percent.

In 1961, the New England fishing fleet reduced operations to the more distant fishing grounds off Canada. However, large U. S. S. R. factory ships and fleets of catcher vessels fished on Georges Bank less than 100 miles from Cape Cod.

HIGHLIGHTS OF 1961

Records Established

UNITED STATES CATCH:

1. Menhaden:--2.3 billion pounds. . . . . (Previous high, 1959--2.2 billion pounds).

2. King crabs:--43 million pounds taken in Alaska. . . . . (Previous high, 1960--28.6 million pounds).

3. Sea scallops:--27.4 million pounds of meats. . . . . (Previous high, 1960--26.6 million pounds).

4. Striped bass:--9.2 million pounds. . . . . (Previous high, 1960--8.6 million pounds).

5. Tuna:--Purse seine catch of tuna landed in California totaled 241 million pounds. . . . . (Previous high, 1960--166 million pounds).

MANUFACTURED PRODUCTS:

1. Canned tuna:--15.6 million cases--the sixth consecutive record . . . . . (Previous high, 1960--15.3 million cases).

2. Menhaden meal:--247,000 tons. . . . . (Previous high, 1959--224,000 tons).

3. Menhaden oil:--30.8 million gallons. . . . . (Previous high, 1960--24.5 million gallons).

4. Fish sticks:--70 million pounds. . . . .(Previous high, 1960--65.1 million pounds).

5. Fish portions:--60 million pounds. . . . .(Previous high, 1960--49.4 million pounds).

IMPORTS:

1. Groundfish fillets and blocks:--185 million pounds first 11 months 1961. . . . .(Previous high first 11 months 1959--168.5 million pounds).

2. Shrimp:--110.8 million pounds first 11 months 1961. . . . . (Previous high first 11 months 1960--101 million pounds).

3. Fish meal:--Available data indicate that imports of fish meal in 1961 exceeded the previous record 204,000 tons received in 1952.

4. Sea scallops:--8.3 million pounds first 11 months 1961. . . . . (Previous high first 11 months 1960--6.4 million pounds).

5. Oysters, canned:--6.9 million pounds first 11 months 1961. . . . . (Previous high first 11 months 1960--6.1 million pounds).

6. Spiny lobsters, frozen:--30.1 million pounds during the first 11 months 1961. . . . . (Previous high first 11 months 1960--29.7 million pounds).

OTHER IMPORTANT FACTS

1. The menhaden catch (2.3 billion pounds) accounted for 45 percent of the total United States catch of all species.

2. In 1961, for the second time, the catch of fish and shellfish taken for the manufacture of industrial products, bait, and animal food (2.7 billion pounds) exceeded the quantity taken for human food.

3. Only 155 million pounds of shrimp (heads-on weight) were taken during 1961 in the South Atlantic and Gulf States--35 percent less than in the previous year and the smallest catch since the early 1940's. The Pacific Coast catch of nearly 17 million pounds was over 4 million pounds greater than in 1960.

4. Despite the sharp decline in the catch of shrimp in the South Atlantic and Gulf States, these shellfish were the most valuable item taken by United States fishermen. The ex-vessel value of the catch--$54.5 million--was about $12 million less than in 1960.

5. Herring catches were down sharply in both Maine and Alaska. Landings in Maine amounted to about 52 million pounds--about one-third the 1960 production. The Alaska catch was 49 million pounds, 38 percent less than in 1960.

6. Frozen light meat tuna imports during the first 11 months of 1961 amounted to 119.5 million pounds--35 million pounds less than in the same period the previous year.

7. Import duties collected on major edible fishery products during the first 11 months of 1961 amounted to $10.9 million--10 percent more than for the same period the previous year.

MAJOR SPECIES

Menhaden:--Record 1961 landings of 2.3 billion pounds were 6.9 times those of second place tuna and 7.4 times those of third place salmon. Nineteen hundred sixty-one was the 16th consecutive year in which menhaden was the leading species taken by United States fishermen. The catch of these fish in the Gulf of Mexico exceeded 1 billion pounds for the first time.

Tuna:--About 334 million pounds of tuna were landed during 1961 in continental United States and Hawaii. Landings were about 36 million pounds more than in the previous year, but were still far below the record 391 million pounds taken in 1950. The shift

of the tuna fleet from handlines to purse seines continued with the latter gear accounting for 77 percent of the California landings, compared with 61 percent in 1960 and 33 percent in 1959. Imports of frozen tuna were down sharply, the pack moved readily, and ex-vessel prices for tuna advanced several times during the year.

Salmon:--About 309 million pounds of salmon were taken by United States fishermen in 1961--31 percent more than in the previous year. Most of the increase occurred in Alaska where the catch of red salmon in Western Alaska was the best since 1948, and the pink salmon catch in Southeastern Alaska was the largest since 1951. While Washington landings were 78 percent greater than in 1960, they were below expectations. The Puget Sound catch of pink salmon was less than half that in 1959, the previous cycle year, and the smallest odd-year catch in the twentieth century.

Groundfish:--Despite a small overall increase in catch, the North Atlantic groundfish fishery continued in the depressed condition that has characterized this industry for the past decade. The combined catch of cod, haddock, hake, pollock, cusk, and ocean perch amounted to 338 million pounds--3 percent more than in 1960. Landings of cod, cusk, and haddock were up with haddock registering a gain of 15 million pounds; however, ocean perch declined to 134 million pounds--7 million pounds less than in 1960 and the second smallest production since 1945. Prices for groundfish remained low and most of the requirements for groundfish fillets were supplied by imports.

Halibut:--The catch of Pacific halibut by United States fishermen totaled 53.2 million pounds (round weight), 2.5 million pounds more than in the previous year. Landings at Ketchikan and Petersburg, Alaska, were up sharply while Seattle receipts declined over 3 million pounds. Ex-vessel halibut prices at Seattle in 1961 were the highest since 1958.

Mackerel, Pacific and jack:--Mackerel were relatively plentiful and the catch of the two species amounting to 138.5 million pounds was the best since 1957. Most of the increase occurred in the catch of jack mackerel--which amounted to 98.3 million pounds.

Sea herring, Atlantic:--Maine landings of herring, used principally for canning sardines, amounted to only 52 million pounds--about one-third the previous year's production and the smallest catch since 1940. Imports of herring into Maine from Canada also declined, amounting to only 41.8 million pounds during the first 11 months of the year, compared with 69.9 million pounds during the same period in 1960.

Sea herring, Pacific:--The Alaska catch of herring, used entirely in the manufacture of fish meal and oil or as bait, amounted to about 49 million pounds. The catch was the lowest since 1954 and one of the half dozen smallest catches since the early 1920's when there was a large expansion in the Alaska herring reduction facilities.

Sardines, Pacific:--Sardines again failed to appear in volume off southern California and only 40.1 million pounds were taken. This was the third smallest catch since World War I, and less than 3 percent of the record 1.5 billion pounds taken in 1936.

Shrimp:--The catch amounted to about 172 million pounds (heads-on), having an ex-vessel value of $54.5 million--a decline of 78 million pounds or 31 percent in volume and $12 million or 19 percent in value. The decline occurred in the South Atlantic and Gulf States where failure of all species of shrimp to appear in normal quantities was a near disaster. The catch for these States, amounting to 155 million pounds, was 82 million pounds less than in 1960 and the smallest on record since 1940. Despite record imports, shrimp were in short supply during the last half of the year. Stocks of frozen shrimp, which totaled a record 54.4 million pounds at the start of the year, were reduced to just under 20 million pounds on December 31. During the year, only 28.2 million pounds were canned in the Gulf States compared with 48 million pounds in 1960. In Alaska, the catch totaled 12.6 million pounds, 5.1 million pounds more than in 1960.

Crabs:--Landings of crabs during 1961 amounted to 220.5 million pounds--a slight decrease from the 1960 catch of 221.7 million pounds. There were declines in many of the Atlantic Coast States where the blue crab is the principal species taken. Continuing a wave of popularity, which resulted in more intensive fishing, the king crab--taken primarily in the Gulf of Alaska--established a record in 1961 when 43 million pounds were taken. Landings of Dungeness crabs were down somewhat from the 36 million pounds taken in 1960.

Oysters:--The catch of oysters continued to decline and only 57.8 million pounds of meats were harvested, 4 percent less than in the previous year. Reduced production in Maryland and Virginia was responsible for the decline. A heartening development was an increase in New Jersey production, where the fishery had nearly been wiped out by an oyster disease.

PRINCIPAL FISHING PORTS

San Pedro, California, was the leading United States fishing port in 1961 with respect to both volume and value. Landings at this port amounted to 416 million pounds, having an ex-vessel value to the fishermen of $36 million. Pascagoula, Mississippi, was in second place with 354 million pounds; followed by Lewes, Delaware, 303 million; Reedville,

Virginia, 290 million; Cameron, Louisiana, 252 million; and Empire, Louisiana, 246 million pounds. Of these, all but San Pedro were entirely or principally menhaden ports. New Bedford, Massachusetts, occupied second place in value of landings with $15 million; followed by Boston, Massachusetts, $10 million; San Diego, California, $8 million; and Gloucester, Massachusetts, $6 million.

MANUFACTURED FISHERY PRODUCTS

Canned Fish and Shellfish:--Canned fishery products packed for human consumption exceeded somewhat the 666 million pounds produced the previous year. Tuna was the principal item with a record pack of 15.6 million cases--300,000 cases more than in 1960. The pack of canned salmon was about 30 percent greater than the 2.8 million cases canned the previous year, and the California pack of jack and Pacific mackerel was up substantially. Packs of canned California and Maine sardines, and shrimp were far less than in 1960.

Fish Meal:--The production of fish meal amounted to about 298,000 tons, slightly more than in the previous year, and only 9,000 tons less than the record 307,000 tons manufactured in 1959. Menhaden meal (247,000 tons) accounted for 83 percent of the 1961 fish meal production.

Fish Oil:--Over 33 million gallons of fish oil were produced in 1961--5 million gallons more than in the previous year, and the largest yield since 1939, when the California sardine fishery was at its peak. Menhaden oil (30.8 million gallons) accounted for 93 percent of the 1961 fish oil production.

Fish Solubles:--About 109,000 tons of fish solubles and homogenized condensed fish were produced during 1961--about 9 percent more than in 1960 but far below the record 165,000 tons manufactured in 1959.

Groundfish Fillets:--The domestic production of groundfish (cod, haddock, hake, pollock, cusk, and ocean perch) fillets in 1961 amounted to about 95.6 million pounds. This was 2 percent more than in 1960 but far below the record 148.8 million pounds in 1951. Imports of groundfish fillets and blocks of fillets during the first eleven months of 1961 totaled nearly 185 million pounds.

Fish Sticks and Portions:--Production of both fish sticks (70 million pounds) and fish portions (60 million pounds) established new records in 1961. In 1960, the production of fish sticks was 65.1 million pounds and fish portions, 49.4 million pounds.

FOREIGN TRADE

Imports:--Imports of edible fishery products into the United States during 1961 were about 26 million pounds more than the 1.1 billion pounds received in 1960. Items received in considerably greater volume included groundfish fillets and blocks, canned tuna, sardines, and frozen shrimp. Imports of frozen light meat tuna and canned salmon declined sharply.

Imports of fish meal during the first 11 months of the year totaled 194,577 tons compared with 115,997 tons for the same period in 1960.

Exports:--United States exports of edible fishery products were about a third less than the 61.5 million pounds sent to foreign countries in 1960, and by far the smallest on record. Reduced shipments of canned salmon, sardines, and squid accounted for the decline.

SUPPLY

Fish Meal:--The 1961 United States supply of fish meal, including the dry weight of solubles (domestic production plus imports), was about 7 percent greater than the former high of 536,000 tons in 1959.

Shrimp:--The supply of shrimp was significantly less than in 1959 and 1960, but was greater than any earlier year. For the first time in the history of the shrimp fishery, imports exceeded the domestic catch.

UNITED STATES CATCH OF CERTAIN SPECIES, 1961 AND 1960

SPECIES	1961 1/	1960
	THOUSAND POUNDS	
ANCHOVIES, CALIFORNIA	7,400	5,059
COD, ATLANTIC:		
MAINE	2,100	2,897
MASSACHUSETTS	36,200	31,266
OTHER	5,400	6,218
TOTAL	43,700	40,381
CRABS, ALL SPECIES	220,500	221,681
HADDOCK:		
MAINE	2,600	3,834
MASSACHUSETTS	130,600	114,643
OTHER	100	220
TOTAL	133,300	118,697
HALIBUT: 2/		
ALASKA	25,100	21,351
WASHINGTON	14,900	16,802
TOTAL	40,000	38,153
HERRING:		
ALASKA	48,600	77,913
MAINE	51,500	152,327
INDUSTRIAL FISH, MAINE AND MASS. 3/	41,900	43,798
MACKEREL:		
JACK	98,300	74,945
PACIFIC	40,200	36,810
MENHADEN	2,295,900	2,018,263
OCEAN PERCH, ATLANTIC	134,200	141,433
OYSTERS, ALL SPECIES	57,800	60,010
SALMON:		
ALASKA	263,700	207,100
WASHINGTON	29,400	16,528
OTHER	15,500	11,819
TOTAL	308,600	235,447
SARDINES, PACIFIC	40,100	57,533
SCALLOPS, SEA (MEATS)	27,400	26,599
SHRIMP (HEADS-ON):		
SOUTH ATLANTIC AND GULF STATES	155,000	236,939
ALASKA	12,600	7,436
WASHINGTON	1,500	1,805
CALIFORNIA	2,000	2,028
OTHER	700	1,244
TOTAL	171,800	249,452
SQUID, CALIFORNIA	4,200	2,562
TUNA	333,600	298,203
WHITING:		
MAINE	14,100	11,123
MASSACHUSETTS	67,700	87,348
OTHER	16,000	13,131
TOTAL	97,800	111,602
TOTAL ALL ABOVE ITEMS	4,196,800	4,010,868
OTHER 4/	943,200	931,361
GRAND TOTAL	5,140,000	4,942,229

1/ PRELIMINARY. 2/ DRESSED WEIGHT. 3/ EXCLUDES MENHADEN. 4/ INCLUDES LANDINGS FOR SPECIES NOT LISTED.

CATCH OF FISH AND SHELLFISH, 1921 - 1961

Year	Catch for Human Food	Catch for Industrial Products 1/	Total		Average Price per Pound
	Million Pounds	Million Pounds	Million Pounds	Million Dollars	Cents
1921	1,451	804	2,255	(2)	(2)
1922	1,677	942	2,619	(2)	(2)
1923	1,807	919	2,726	(2)	(2)
1924	1,874	587	2,461	(2)	(2)
1925	2,029	862	2,891	(2)	(2)
1926	2,198	673	2,871	(2)	(2)
1927	2,172	634	2,806	(2)	(2)
1928	2,370	691	3,061	(2)	(2)
1929	2,601	890	3,491	(2)	(2)
1930	2,478	746	3,224	109	3.39
1931	2,129	501	2,630	77	2.94
1932	1,864	748	2,612	56	2.13
1933	2,086	911	2,997	(2)	(2)
1934	2,434	1,670	4,104	(2)	(2)
1935	2,583	1,552	4,135	(2)	(2)
1936	2,854	1,972	4,826	(2)	(2)
1937	2,703	1,650	4,353	101	2.32
1938	2,639	1,615	4,254	94	2.20
1939	2,713	1,732	4,445	97	2.17
1940	2,674	1,385	4,059	99	2.44
1941	3,062	1,838	4,900	129	2.63
1942	2,683	1,192	3,875	170	4.40
1943	2,737	1,425	4,162	204	4.90
1944	2,865	1,668	4,533	213	4.70
1945	3,167	1,431	4,598	270	5.87
1946	3,049	1,418	4,467	313	7.01
1947	3,020	1,329	4,349	312	7.16
1948	3,146	1,367	4,513	371	8.22
1949	3,305	1,499	4,804	343	7.13
1950	*3,307	1,594	4,901	347	7.09
1951	3,048	1,385	4,433	365	*8.23
1952	2,778	1,654	4,432	364	8.20
1953	2,519	1,968	4,487	356	7.94
1954	2,705	2,057	4,762	359	7.55
1955	2,579	2,230	4,809	339	7.05
1956	2,690	2,578	*5,268	372	7.06
1957	2,475	2,314	4,789	354	7.39
1958	2,651	2,096	4,747	*373	7.86
1959	2,369	*2,753	5,122	346	6.76
1960	2,498	2,444	4,942	354	7.16
1961 3/	2,486	2,654	5,140	364	7.08

1/ Manufactured into meal, oil, fish solubles, homogenized condensed fish, shell products, and used as bait and animal food.
2/ Not available.
3/ Preliminary.
* Record.
Note:--Does not include data on the Hawaiian catch prior to 1946.

UNITED STATES CATCH, BY AREAS, VARIOUS YEARS, 1936 - 1961
(Million Pounds)

Area	1936	1940	1945	1950	1960 1/	1961 2/
Atlantic Coast:						
Quantity	1,605	1,628	2,049	2,140	2,450	2,448
Percent	33	40	45	44	50	47
Gulf:						
Quantity	187	250	341	571	1,266	1,370
Percent	4	6	7	12	26	27
Washington, Oregon, and California:						
Quantity	1,926	1,453	1,428	1,515	703	755
Percent	40	36	31	31	14	15
Great Lakes and Mississippi River:						
Quantity	176	164	184	177	154	142
Percent	4	4	4	3	3	3
Alaska:						
Quantity	932	564	596	482	358	409
Percent	19	14	13	10	7	8
Hawaii:						
Quantity	(3)	(3)	(3)	16	11	16
Percent	--	--	--	--	--	--
Total	4,826	4,059	4,598	4,901	4,942	5,140

1/ Revised.

2/ Preliminary.

3/ Data not available

RELATIVE VOLUME OF THE CATCH BY SPECIES, 1960

SPECIES	QUANTITY	PERCENT OF TOTAL	RECORD QUANTITY	
	THOUSAND POUNDS	PERCENT	YEAR	THOUSAND POUNDS
MENHADEN	2,018,263	40.8	1959	2,202,732
TUNA	298,203	6.0	1950	391,454
SHRIMP	249,452	5.0	1954	268,334
HERRING, SEA:				
ATLANTIC	155,198	3.1	1902	200,598
PACIFIC	83,820	1.7	1937	263,200
TOTAL	239,018	4.8	--	--
SALMON	235,447	4.8	1936	790,884
CRABS	221,681	4.5	1960	221,681
OCEAN PERCH, ATLANTIC	141,433	2.9	1951	258,320
INDUSTRIAL FISH 1/	137,389	2.8	1959	247,980
FLOUNDERS	127,048	2.6	1948	138,924
HADDOCK	118,697	2.4	1929	293,809
WHITING	111,602	2.3	1957	133,041
JACK MACKEREL	75,137	1.5	1952	146,522
OYSTERS	60,010	1.2	2/1908	152,046
SARDINE, PACIFIC	57,534	1.2	1936	1,502,299
ALEWIVES	53,595	1.1	1908	89,978
HALIBUT, PACIFIC	50,932	1.0	1915	66,707
CLAMS	49,572	1.0	1960	49,572
SCUP OR PORGY	49,229	1.0	1960	49,229
MULLET	40,839	.8	1902	43,385
COD:				
ATLANTIC	40,381	.8	1880	294,351
PACIFIC	5,372	.1	1915	32,681
TOTAL	45,753	.9	--	--
MACKEREL, PACIFIC	36,810	.8	1935	146,727
CATFISH AND BULLHEADS	34,832	.7	1960	34,832
CARP	31,513	.6	1908	42,659
LOBSTERS, NORTHERN	31,168	.6	1960	31,168
ROCKFISHES	27,286	.6	1945	57,686
SCALLOPS, SEA	26,599	.5	1960	26,599
MUSSEL SHELLS	23,655	.5	1908	81,869
POLLOCK	22,334	.5	1938	40,694
CHUBS	16,854	.3	1960	16,854
BUFFALOFISH	16,796	.3	1950	25,873
HERRING, THREAD	12,402	.3	1957	15,554
SABLEFISH	11,325	.2	1945	17,750
HERRING, LAKE	11,083	.2	1899	59,914
SPOT	11,063	.2	1952	15,863
BUTTERFISH	10,991	.2	1939	17,151
SHEEPSHEAD, FRESH-WATER	10,990	.2	1959	13,644
SNAPPER, RED	10,892	.2	1902	23,457
YELLOW PERCH	10,597	.2	1934	16,282
HAKE, RED	8,999	.2	--	--
OCEAN PERCH, PACIFIC	8,842	.2	1954	11,171
STRIPED BASS	8,580	.2	1960	8,580
LINGCOD	7,926	.2	1944	14,262
SPANISH MACKEREL	7,894	.2	1945	11,593
OTHER	161,964	3.3	--	--
TOTAL	4,942,229	100.0	--	--

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD.

RELATIVE VALUE OF THE CATCH BY SPECIES, 1960

SPECIES	VALUE	PERCENT OF TOTAL	RECORD	VALUE
	THOUSAND DOLLARS	PERCENT	YEAR	THOUSAND DOLLARS
SHRIMP	66,932	18.9	1953	76,641
SALMON	44,730	12.7	1951	52,509
TUNA	37,571	10.6	1950	61,342
OYSTERS	29,242	8.3	1954	32,796
MENHADEN	20,301	5.7	1956	28,425
CRABS	17,068	4.8	1960	17,068
LOBSTERS, NORTHERN	14,251	4.0	1959	14,468
FLOUNDERS	13,007	3.7	1951	13,253
CLAMS	12,049	3.4	1960	12,049
HADDOCK	9,398	2.7	1946	13,043
SCALLOPS, SEA	9,266	2.6	1959	11,805
HALIBUT, PACIFIC	6,232	1.8	1956	9,013
CATFISH AND BULLHEADS	5,608	1.6	1952	6,411
OCEAN PERCH, ATLANTIC	5,420	1.5	1951	12,597
HERRING, SEA:				
ATLANTIC	2,542	.7	1948	3,798
PACIFIC	994	.3	1947	2,152
TOTAL	3,536	1.0	--	--
COD:				
ATLANTIC	2,696	.8	1948	4,742
PACIFIC	263	.1	1959	664
TOTAL	2,959	.9	--	--
SNAPPER, RED	2,806	.8	1959	2,888
SCUP OR PORGY	2,732	.8	1951	2,994
CHUBS	2,551	.7	1958	2,564
WHITING	2,535	.7	1951	2,903
MULLET	2,444	.7	1945	4,647
INDUSTRIAL FISH 1/	2,108	.6	1959	2,632
BUFFALOFISH	1,961	.6	1952	3,564
JACK MACKEREL	1,664	.5	1952	4,755
SCALLOPS, BAY	1,474	.4	1960	1,474
MUSSEL SHELLS	1,378	.4	--	--
LOBSTERS, SPINY	1,344	.4	1957	1,500
STRIPED BASS	1,338	.4	1959	1,436
SEA TROUT OR WEAKFISH, SPOTTED	1,294	.4	1952	1,781
ROCKFISHES	1,264	.4	1945	2,648
SARDINE, PACIFIC	1,186	.3	1950	12,140
YELLOW PERCH	1,165	.3	1958	1,540
SHAD	1,141	.3	1945	2,680
SABLEFISH	1,087	.3	1946	1,834
SEA BASS, BLACK (ATLANTIC)	1,071	.3	1952	2,206
CARP	1,024	.3	1951	2,007
CROAKER	983	.3	1945	6,950
BUTTERFISH	900	.2	1958	971
YELLOW PIKE	843	.2	1951	2,152
GROUPERS	805	.2	1945	1,038
SPOT	805	.2	1949	975
SPANISH MACKEREL	761	.2	1945	1,321
OTHER	17,331	4.9	--	--
TOTAL	353,565	100.0	--	--

1/ UNCLASSIFIED SPECIES FOR BAIT, REDUCTION, AND ANIMAL FOOD.

DOMESTIC CATCH FROM WATERS OFF THE UNITED STATES AND ON THE HIGH SEAS OFF FOREIGN COASTS, 1960
(THOUSANDS OF POUNDS)

AREA AND SPECIES	WATERS OFF U. S. COASTS	HIGH SEAS OFF FOREIGN COASTS	TOTAL
	QUANTITY	QUANTITY	QUANTITY
ATLANTIC AND GULF STATES:			
NEW ENGLAND:			
COD	31,482	3,773	35,255
CUSK	1,699	228	1,927
FLOUNDERS	61,030	529	61,559
HADDOCK	99,943	18,672	118,615
HAKE, WHITE	5,477	232	5,709
HALIBUT	158	112	270
OCEAN PERCH	25,037	116,396	141,433
POLLOCK	18,039	4,288	22,327
WHITING	103,244	393	103,637
WOLFFISH	475	344	819
OTHER	360,352	61	360,413
TOTAL	706,936	145,028	851,964
MIDDLE ATLANTIC, CHESAPEAKE AND SOUTH ATLANTIC STATES, TOTAL	1,598,524	--	1,598,524
GULF:			
GROUPERS	6,025	316	6,341
SHRIMP	178,555	27,170	205,725
SNAPPERS, RED	7,198	3,017	10,215
OTHER	1,043,669	--	1,043,669
TOTAL	1,235,447	30,503	1,265,950
TOTAL ATLANTIC AND GULF STATES	3,540,907	175,531	3,716,438
PACIFIC COAST STATES:			
ALASKA, WASHINGTON AND OREGON:			
BOTTOMFISH (WASHINGTON AND OREGON) 1/	35,560	35,018	70,578
CRABS	49,851	--	49,851
HALIBUT	46,308	4,619	50,927
SALMON	228,063	1,163	229,226
SHRIMP	10,371	19	10,390
TUNA, ALBACORE	5,088	1	5,089
OTHER	103,661	266	103,927
TOTAL	478,902	41,086	519,988
CALIFORNIA:			
BARRACUDA	1,148	82	1,230
BONITO	1,220	30	1,250
FLOUNDERS	366	10	376
GROUPERS	--	254	254
ROCKFISHES	13,595	119	13,714
SEA BASS, WHITE	1,087	149	1,236
SHARKS, UNCLASSIFIED	669	25	694
TUNA:			
ALBACORE	32,126	2,987	35,113
BLUEFIN	4,339	7,613	11,952
SKIPJACK	24	46,280	46,304
YELLOWFIN	11	189,296	189,307
OTHER	239,060	347	239,407
TOTAL	293,645	247,192	540,837
TOTAL PACIFIC COAST STATES	772,547	288,278	1,060,825
GREAT LAKES AND MISSISSIPPI RIVER STATES, TOTAL	153,848	--	153,848
HAWAII, TOTAL	11,118	--	11,118
GRAND TOTAL	4,478,420	463,809	4,942,229

1/ PRINCIPALLY COD, FLOUNDERS (INCLUDING SOLE), LINGCOD, OCEAN PERCH, ROCKFISHES, AND SABLEFISH.

EMPLOYMENT, FISHING CRAFT, AND ESTABLISHMENTS, 1960, 1950, 1940 AND 1930

Item	1960	1950	1940	1930
	Number	Number	Number	Number
Persons employed:				
Direct:				
Fishermen	130,431	161,463	124,795	119,716
Transporters	2,111	4,916	3,955	4,501
Shore workers	93,625	102,015	90,215	78,996
Indirect:				
Allied industries (gear, manufacture, boat building, processing equipment, etc.)	313,000	300,000	210,000	200,000
Total	539,167	568,394	428,965	403,213
Craft Utilized:				
Fishing:				
Vessels (5 net tons and over)	12,018	11,496	5,562	4,374
Motor Boats	56,889	46,067	31,055	35,437
Other boats	8,150	34,747	35,193	37,961
Transporting:				
Vessels (5 net tons and over)	891	1,313	1,325	1,419
Motor boats	203	827	726	1,363
Total	78,151	94,450	73,861	80,554
Vessels documented for fishing for the first time during the year	408	812	320	(1)
Fishery shore establishments:				
Pacific Coast States	515	700	579	569
Atlantic Coast and Gulf States	2,898	2,699	2,038	2,024
Great Lakes and Mississippi River States	772	484	438	402
Hawaii	22	(1)	(1)	(1)
Total	4,207	3,883	3,055	2,995

1/ Not available.

PACK OF CERTAIN CANNED PRODUCTS, 1961 AND 1960

Item	1961 1/		1960 2/	
	Standard Cases	Pounds	Standard Cases	Pounds
Tuna:				
California	10,549,000	207,149,954	10,714,911	210,407,936
Washington and Oregon	1,272,000	25,613,856	1,473,540	29,672,202
Other	3,776,100	74,272,176	3,116,983	61,307,992
Total	15,597,100	307,035,986	15,305,434	301,388,130
Salmon, Pacific Coast				
Alaska	3,296,000	158,208,000	2,571,156	123,415,488
Other	3/	3/	263,197	12,633,456
Sardines:				
Maine	700,000	5,851,965	1,997,618	16,699,987
Pacific	415,000	18,675,000	615,865	27,713,925
Mackerel, jack and Pacific	1,240,000	55,800,000	934,746	42,063,570
Shrimp	4/ 480,000	7,200,000	4/871,973	13,079,595

1/ Preliminary.

2/ Revised.

3/ Not available. 4/ Gulf and South Atlantic.

PRODUCTION OF FISH STICKS AND PORTIONS, 1961 AND 1960

Item	1961 1/	1960 2/
	Thousand Pounds	Thousand Pounds
Fish sticks:		
Cooked	65,085	60,393
Raw	4,818	4,749
Total	69,903	65,142
Portions:		
Breaded:		
Cooked	11,253	8,308
Raw	46,844	39,026
Total breaded	58,097	47,334
Unbreaded	1,945	2,047
Total portions	60,042	49,381
Grand total, sticks and portions	129,945	114,523

1/ Preliminary. 2/ Revised

UNITED STATES PRODUCTION OF FISH MEAL, 1961 AND 1960

Item	1961 1/	1960 2/
	Tons	Tons
Menhaden	246,693	218,423
Tuna and mackerel	(3)	26,499
Herring, Alaska	3,810	6,103
Other	47,497	39,112
Total Production	298,000	290,137

1/ Preliminary.
2/ Revised.
3/ Included in Other.

UNITED STATES PRODUCTION OF FISH OIL, 1961 AND 1960

Item	1961 1/	1960 2/
	Thousand Gallons	Thousand Gallons
Menhaden	30,815	24,454
Herring	728	1,533
Tuna and mackerel	(3)	509
Sardine, Pacific	58	160
Other	1,735	1,197
Total	33,336	27,853

1/ Preliminary.
2/ Revised.
3/ Included in Other.

UNITED STATES PRODUCTION OF FISH SOLUBLES
AND HOMOGENIZED CONDENSED FISH, 1961 AND 1960

Item	1961	1960
	Tons	Tons
Fish Solubles	97,073	89,377
Homogenized Condensed Fish	11,777	9,552
Total	108,850	98,929

UNITED STATES SUPPLY OF FISH MEAL AND SOLUBLES, 1950 - 1961
(Dry-Weight Basis)

Year	U. S. Production 1/		Imports		Total
	Tons	Percent	Tons	Percent	Tons
1950	291,817	82.0	2/63,855	18.0	335,672
1951	260,120	66.9	2/128,478	33.1	388,598
1952	291,885	58.9	2/203,539	41.1	495,424
1953	320,345	70.9	2/131,473	29.1	451,818
1954	314,482	68.1	147,584	31.9	462,066
1955	319,962	76.2	99,692	23.8	419,654
1956	360,207	79.6	92,089	20.4	452,296
1957	325,221	79.0	86,297	21.0	411,518
1958	313,228	74.3	108,167	25.7	421,395
1959	*389,231	72.5	147,392	27.5	536,623
1960 3/	339,601	71.8	133,148	28.2	472,749
1961 4/	352,981	61.7	*5/218,711	38.3	*571,692

1/ Includes homogenized condensed fish.

2/ Imports of meal only. Data not available on imports of solubles.

3/ Revised.

4/ Preliminary.

5/ December imports estimated. *Record.

Note:--Wet weight of solubles and homogenized condensed fish have been converted to dry weight by reducing their poundage by one-half.

UNITED STATES SUPPLY OF FISHERY PRODUCTS, 1947 - 1961

(Round Weight Basis)

Year	Domestic Catch		Imports 1/		Total
	Million Pounds	Percent	Million Pounds	Percent	Million Pounds
1947. . .	4,349	86.0	710	14.0	5,059
1948. . .	4,513	80.0	1,128	20.0	5,641
1949. . .	4,804	79.5	1,237	20.5	6,041
1950. . .	4,901	74.9	1,646	25.1	6,547
1951. . .	4,433	65.6	2,324	34.4	6,757
1952. . .	4,432	58.0	3,204	42.0	7,636
1953. . .	4,487	64.0	2,528	36.0	7,015
1954. . .	4,762	62.7	2,829	37.3	7,591
1955. . .	4,809	67.6	2,303	32.4	7,112
1956. . .	*5,268	69.7	2,287	30.3	7,555
1957. . .	4,789	67.1	2,351	32.9	7,140
1958. . .	4,747	64.0	2,673	36.0	7,420
1959. . .	5,122	61.2	*3,251	38.8	*8,373
1960 2/ .	4,942	61.3	3,118	38.7	8,060
1961 3/ .	5,140	55.9	4/4,056	44.1	9,196

1/ Excludes imports of cured cod into Puerto Rico. 2/ Revised.
3/ Preliminary. 4/ December estimated. * Record.

UNITED STATES SUPPLY OF EDIBLE FISHERY PRODUCTS, 1947 - 1961

(Round Weight Basis)

Year	Domestic Catch		Imports 1/		Total
	Million Pounds	Percent	Million Pounds	Percent	Million Pounds
1947. . .	3,020	82.9	625	17.1	3,645
1948. . .	3,146	81.4	717	18.6	3,863
1949. . .	3,305	82.2	715	17.8	4,020
1950. . .	*3,307	76.6	1,008	23.4	4,315
1951. . .	3,048	74.6	1,039	25.4	4,087
1952. . .	2,778	70.4	1,169	29.6	3,947
1953. . .	2,519	67.5	1,213	32.5	3,732
1954. . .	2,705	66.4	1,369	33.6	4,074
1955. . .	2,579	66.1	1,323	33.9	3,902
1956. . .	2,690	66.0	1,387	34.0	4,077
1957. . .	2,475	61.6	1,541	38.4	4,016
1958. . .	2,651	61.3	1,673	38.7	*4,324
1959. . .	2,369	55.2	*1,921	44.8	4,290
1960 2/ .	2,498	58.1	1,798	41.9	4,296
1961 3/ .	2,486	56.6	4/1,910	43.4	4,396

1/ Excludes imports of cured cod into Puerto Rico. 2/ Revised.
3/ Preliminary. 4/ December estimated. * Record.

U. S. SUPPLY OF INDUSTRIAL FISHERY PRODUCTS, 1947 - 61

(Round Weight Basis)

Year	Domestic Catch		Imports		Total
	Million Pounds	Percent	Million Pounds	Percent	Million Pounds
1947	1,329	94.0	85	6.0	1,414
1948	1,367	76.9	411	23.1	1,778
1949	1,499	74.2	522	25.8	2,021
1950	1,594	71.4	638	28.6	2,232
1951	1,385	51.9	1,285	48.1	2,670
1952	1,654	44.8	2,035	55.2	3,689
1953	1,968	60.0	1,315	40.0	3,283
1954	2,057	58.5	1,460	41.5	3,517
1955	2,230	69.5	980	30.5	3,210
1956	2,578	74.1	900	25.9	3,478
1957	2,314	74.1	810	25.9	3,124
1958	2,096	67.6	1,000	32.4	3,096
1959	*2,753	67.4	1,330	32.6	4,083
1960 1/	2,444	64.9	1,320	35.1	3,764
1961 2/	2,654	55.3	*3/2,146	44.7	*4,800

1/ Revised. 2/ Preliminary. 3/ December estimated. *Record.

UNITED STATES EXPORTS OF CERTAIN FISHERY PRODUCTS, 1961 AND 1960

Item	11 months		1960 2/	Record Exports	
	1961 1/	1960 1/			
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Year	Thousand Pounds
Canned:					
Sardines, not in oil. .	6,154	18,746	20,955	1929	123,920
Salmon.	6,809	10,469	11,924	1943	69,486
Fish oil, unclassified. .	112,002	127,852	143,659	1959	144,481

1/ Preliminary.

2/ Revised.

UNITED STATES IMPORTS OF CERTAIN FISHERY PRODUCTS, 1961 AND 1960

Item	11 Months		1960 2/	Record Imports	
	1961 1/	1960			
	Thousand Pounds	Thousand Pounds	Thousand Pounds	Year	Thousand Pounds
Edible Fishery Products:					
Fresh and Frozen:					
Fillets:					
Groundfish and ocean perch	73,340	62,819	65,878	1959	184,837
Blocks or slabs	111,626	83,165	89,672		
Total	184,966	145,984	155,550	1959	184,837
Other	62,718	60,405	65,459	1959	67,881
Salmon	11,590	12,911	13,472	1950	44,975
Tuna:					
Albacore	63,815	63,416	69,801	1960	69,801
Other	119,456	154,928	164,847	1959	183,955
Loins and discs	7,179	6,463	6,711	1957	12,434
Sea scallops	8,255	6,429	6,873	1960	6,873
Lobsters:					
Common (includes fresh-cooked meat)	18,450	19,178	21,403	1951	23,558
Spiny	30,140	29,656	32,346	1960	32,346
Shrimp (mostly frozen, some canned and dried)	110,840	101,007	113,418	1960	113,418
Canned:					
Salmon	7,179	17,720	19,113	1959	31,154
Sardines:					
In oil	24,875	19,461	21,236	1932	42,336
Not in oil	13,645	5,820	6,141	1953	34,271
Tuna:					
In oil	404	567	596	1950	36,410
In brine	53,128	46,621	51,159	1959	55,304
Bonito and Yellowtail:					
In oil	6,258	6,635	7,109	1954	12,996
In brine	3,405	2,482	2,795	1957	3,905
Crab meat	3,837	4,101	4,507	1939	13,507
Lobsters:					
Common	2,661	2,338	2,406	1960	2,406
Spiny	56	501	533	1952	2,621
Oysters and oyster juice	6,901	6,057	7,025	1960	7,025
	Quantity	Quantity	Quantity		Quantity
Nonedible Fishery Products:					
Scrap and meal (tons)	194,577	115,997	131,561	1952	203,539
Solubles (tons)	6,267	3,114	3,174	1959	26,630
Whale oil, sperm (000 gallons)	7,350	4,837	4,837	1958	9,010

1/ Preliminary. 2/ Revised.

Note:--The data include imports into United States territories and possessions, but do not include landings of tuna by foreign vessels in American Samoa.

Source:--Bureau of Census, Department of Commerce

UNITED STATES SHRIMP IMPORTS, 1961 AND 1960
(Import Weight)

Country	1961 1/	1960	1960
	11 Months	11 Months	Total
	1,000 Pounds	1,000 Pounds	1,000 Pounds
Mexico	69,031	64,270	73,583
British Honduras	3	1	1
Canada	201	316	332
El Salvador	7,203	6,365	6,697
Guatemala	642	225	257
Honduras	169	292	361
Nicaragua	585	266	266
Costa Rica	1,218	424	461
Panama	9,276	8,006	8,423
Bahamas	4	79	79
Trinidad	15	194	194
Cuba	--	71	79
Netherlands Antilles	--	--	2
Columbia	1,670	1,982	2,174
Venezuela	2,084	202	344
British Guiana	2,885	3,068	3,568
Surinam	332	339	381
Ecuador	4,366	3,898	4,192
Peru	358	180	256
Chile	512	725	739
Brazil	40	34	43
Argentina	20	61	64
Iceland	69	83	92
Norway	66	105	110
Denmark	94	73	81
United Kingdom	59	--	--
Western Germany	1	2	3
Spain	378	170	225
Italy	24	--	--
Iran	1,731	1,155	1,226
Israel	--	2	2
Saudi Arabia	--	77	77
India	2,866	2,545	2,892
Pakistan	1,273	951	1,018
Vietnam	103	97	97
Thialand	36	40	40
Korea	114	69	93
Hong Kong	13	1	3
Taiwan	--	3	3
Japan	1,561	2,805	2,947
Australia	36	123	129
Egypt	1,522	1,502	1,667
Other	280	207	217
Total	110,840	101,008	113,418

1/ Preliminary.

WORLD CATCH OF FISH, CRUSTACEANS, MOLLUCKS, ETC., BY COUNTRIES, 1960
(Live Weight Basis)

Country	Million Pounds	Percent	Country	Million Pounds	Percent
JAPAN	13,652	16.2	PORTUGAL	1,047	1.3
CHINA .1/	11,067	13.3	KOREA, SOUTH	755	.9
PERU	7,785	9.3	CHILE	749	.9
U. S. S. R.	6,724	8.1	SOUTH WEST AFRICA	704	.8
UNITED STATES .2/	6,216	7.5	NETHERLANDS	694	.8
NORWAY	3,525	4.2	PAKISTAN	671	.8
INDIA	2,557	3.1	CHINA (TAIWAN)	571	.7
SPAIN .3/	2,062	2.5	SWEDEN	561	.7
CANADA	2,047	2.5	ANGOLA	556	.7
UNITED KINGDOM	2,037	2.4	BRAZIL .1/	537	.6
INDONESIA	1,662	2.0	THAILAND	487	.6
GERMANY, WESTERN	1,486	1.8	ITALY	468	.6
FRANCE	1,315	1.6	MEXICO	420	.5
ICELAND	1,307	1.6	POLAND	405	.5
DENMARK	1,281	1.5	FEDERATION OF MALAYA	368	.4
UNION OF SOUTH AFRICA	1,277	1.5	OTHER	7,187	8.6
PHILIPPINES	1,050	1.3	TOTAL .2/	83,230	100.0

1/ 1959 Catch. 2/ Revised. 3/ Estimated.
Source:--Yearbook of Fishery Statistics, 1960, Volume XII, Food and Agriculture Organization of the United Nations.

REVIEW OF WORLD FISHERIES, 1950 AND 1960, CATCH BY CONTINENTS
(Live Weight Basis)

Continent	1950	1960	Percent Increase
	Million Pounds	Million Pounds	
North America:			
United States	5,847	1/6,216	6
Other	2,486	2,763	11
Total	8,333	8,979	8
South America:			
Peru	184	7,785	4,131
Other	896	1,739	94
Total	1,080	9,524	782
Eurpoe	13,382	17,394	30
Asia	15,675	35,406	126
U. S. S. R.	3,594	6,724	87
Africa	2,337	4,916	110
Oceania	198	287	45
Total	44,599	83,230	87

1/ Revised.
Source:--Yearbook of Fishery Statistics, Food and Agriculture Organization of the United Nations.

BUREAU OF COMMERCIAL
FISHERIES

FEB 8 11 24 AM '62

HAWAII AREA
HONOLULU